

M. Monshipour

ENTERED



1600

## RAW SEQUENCE LISTING

DATE: 09/10/2003

PATENT APPLICATION: US/09/686,346A

TIME: 09:44:48

Input Set : N:\EBONY'S\US09686346A.raw.txt

Output Set: N:\CRF4\09102003\I686346A.raw

C--> 1 <110> APPLICANT: Cobb, Melanie  
 2 <120> TITLE OF INVENTION: TAO PROTEIN KINASE POLYPEPTIDES AND METHODS OF USE THEREOF  
 3 <130> FILE REFERENCE: 10624-026-999  
 4 <140> CURRENT APPLICATION NUMBER: US/09/686,346A  
 5 <141> CURRENT FILING DATE: 2000-10-10  
 6 <150> PRIOR APPLICATION NUMBER: 09/060,410  
 7 <151> PRIOR FILING DATE: 1998-04-14  
 8 <160> NUMBER OF SEQ ID NOS: 26  
 9 <170> SOFTWARE: PatentIn version 3.0  
 11 <210> SEQ ID NO: 1  
 12 <211> LENGTH: 3312  
 13 <212> TYPE: DNA  
 14 <213> ORGANISM: Rattus norvegicus  
 15 <400> SEQUENCE: 1

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18	atgccatcaa	ctaacagagc	aggcagtcta	aaggacctg	aaatcgcaga	gctcttcttc	180
19	aaagaagatc	cggaaaaact	cttcacagat	ctcagagaaa	tcggccatgg	gagctttgga	240
20	gcagtttatt	ttgcacgaga	tgtgcgtact	aatgaagtgg	tggccatcaa	gaaaatgtct	300
21	tatagtggaa	agcagtctac	tgagaaatgg	caggatatta	ttaaggaagt	caagtttcta	360
22	caaagaataa	aacatcccaa	cagtatagaa	tacaaaggct	gctattttacg	tgaacacaca	420
23	gcattgcttg	taattggaata	ttgttttagga	tctgcttcgg	atttactaga	agttcataaa	480
24	aagccattac	aagaagtggg	aatagcagca	attacacatg	gtgctctcca	gggattagct	540
25	tattttacatt	ctcataccat	gatccataga	gatatcaaag	caggaaatat	ccttctgaca	600
26	gaaccaggcc	aagtgaact	tgctgacttt	ggatctgctt	ccatggcctc	ccctgccaat	660
27	tcttttgtgg	gaacaccata	ttggatggcc	ccagaagtaa	ttttagccat	ggatgaagga	720
28	caatatgatg	gcaaagttag	tgtatggtct	cttggataaa	catgtattga	attagccgag	780
29	aggaagcctc	ctttatttaa	tatgaatgca	atgagtgcct	tatatcacat	agcccaaat	840
30	gaatccccta	cactacagtc	taatgaatgg	tctgattatt	ttcgaaactt	tgtagattct	900
31	tgccctccaga	aaatccctca	agatcgccct	acatcagagg	aactttttaa	gcacatgttt	960
32	gttcttcgag	agcgccctga	aacagtgtta	atagatctta	ttcaaaggac	aaaggatgca	1020
33	gtaagagagc	tggacaatct	acaatatcga	aagatgaaga	aactcctttt	ccaggaggca	1080
34	cataatggac	cagcagtaga	agcacaggaa	gaagaggagg	agcaagatca	tgggtggtggc	1140
35	cggacaggaa	cagtaaatag	tgttggaagc	aatcagtcta	tcccagtat	gtctatcagt	1200
36	gccagtagcc	aaagcagcag	tgttaatagt	cttccagatg	catcggatga	caagagtggg	1260
37	ctagacatga	tggaggggaga	ccatacagtg	atgtctaaca	gttctgtcat	ccacttaaaa	1320
38	cctgaggagg	aaaattacca	agaagaagga	gatoctagaa	caagagcatc	agctccacag	1380
39	tctccacctc	aagtgtctcg	tcacaaatca	cattatcgta	atagagaaca	ctttgcaact	1440
40	atacgaacag	catcactggt	tacaagacag	atgcaagaac	atgagcagga	ctctgaactt	1500
41	agagaacaga	tgtctggtta	taagcggatg	aggcgacagc	atcagaagca	gctgatgact	1560
42	ctggaaaata	aactgaaggc	agaaatggac	gaacatcggc	tcagattaga	caaagatctt	1620
43	gaaactcagc	gcaacaattt	cgctgcagaa	atggagaaac	ttattaagaa	acaccaagct	1680
44	tctatggaaa	aagaggctaa	agtgatggcc	aacgaggaga	aaaaattcca	acaacacatt	1740

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DATE: 09/10/2003

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TIME: 09:44:48

Input Set : N:\EBONY'S\US09686346A.raw.txt

Output Set: N:\CRF4\09102003\I686346A.raw

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45 caggctcaac agaagaaaga actgaatagc tttttggagt ctcaaaaaag agaataataa 1800
46 cttcgaaaag agcagcttaa ggaggagctg aatgaaaacc agagcacacc taaaaaagaa 1860
47 aagcaggaat ggctttcaaa gcagaaggag aatattcaac attttcaggc agaagaagaa 1920
48 gctaattctt ttcgacgtca aaggcagtat ctagagctag aatgtcgtcg cttcaaaaga 1980
49 agaattgttac ttggtcggca taacttggaa caggaccttg tcaggaggga gttaaacaaa 2040
50 aggcagactc agaaggactt agaacatgca atgttactgc gacagcatga atccatgcaa 2100
51 gaactggagt ttgccacct caacactatt cagaagatgc gctgtgagtt gatcagactg 2160
52 caacatcaaa ctgagcttac taaccagctg gaatacaata agagaaggga acgggaacta 2220
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54 caaataaaaa agcagtttca ggatacctgc aaaattcaaa ccagacagta caaagcatta 2340
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66 ggagtccgca atagccccc ggctctgagg cggacagctt ctggggggacg gacggaacag 3060
67 ggcattgagca gaagcacgag tgtcacttca caaatatcca atgggtcaca catgtcttac 3120
68 acataataat tgaaagtggc aattccgctg gagctgtctg ccaaaagaaa ctgcctacag 3180
69 acatcagcac agcagcctcc tcaattgggt actaccgggt ggaagctgtg catatggtat 3240
70 attttattcg tctttgtaaa gcgttatggt ttgtgtttac taattgggat gtcatagtat 3300
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73 &lt;210&gt; SEQ ID NO: 2

74 &lt;211&gt; LENGTH: 1001

75 &lt;212&gt; TYPE: PRT

76 &lt;213&gt; ORGANISM: Rattus norvegicus

77 &lt;400&gt; SEQUENCE: 2

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79 1 5 10 15
80 Glu Leu Phe Phe Lys Glu Asp Pro Glu Lys Leu Phe Thr Asp Leu Arg
81 20 25 30
82 Glu Ile Gly His Gly Ser Phe Gly Ala Val Tyr Phe Ala Arg Asp Val
83 35 40 45
84 Arg Thr Asn Glu Val Val Ala Ile Lys Lys Met Ser Tyr Ser Gly Lys
85 50 55 60
86 Gln Ser Thr Glu Lys Trp Gln Asp Ile Ile Lys Glu Val Lys Phe Leu
87 65 70 75 80
88 Gln Arg Ile Lys His Pro Asn Ser Ile Glu Tyr Lys Gly Cys Tyr Leu
89 85 90 95
90 Arg Glu His Thr Ala Trp Leu Val Met Glu Tyr Cys Leu Gly Ser Ala
91 100 105 110
92 Ser Asp Leu Glu Glu Val His Lys Lys Pro Leu Gln Glu Val Glu Ile
93 115 120 125
94 Ala Ala Ile Thr His Gly Ala Leu Gln Gly Leu Ala Tyr Leu His Ser

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95          130          135          140
96 His Thr Met Ile His Arg Asp Ile Lys Ala Gly Asn Ile Leu Leu Thr
97 145          150          155          160
98 Glu Pro Gly Gln Val Lys Leu Ala Asp Phe Gly Ser Ala Ser Met Ala
99          165          170          175
100 Ser Pro Ala Asn Ser Phe Val Gly Thr Pro Tyr Trp Met Ala Pro Glu
101          180          185          190
102 Val Ile Leu Ala Met Asp Glu Gly Gln Tyr Asp Gly Lys Val Asp Val
103          195          200          205
104 Trp Ser Leu Gly Ile Thr Cys Ile Glu Leu Ala Glu Arg Lys Pro Pro
105          210          215          220
106 Leu Phe Asn Met Asn Ala Met Ser Ala Leu Tyr His Ile Ala Gln Asn
107 225          230          235          240
108 Glu Ser Pro Thr Leu Gln Ser Asn Glu Trp Ser Asp Tyr Phe Arg Asn
109          245          250          255
110 Phe Val Asp Ser Cys Leu Gln Lys Ile Pro Gln Asp Arg Pro Thr Ser
111          260          265          270
112 Glu Glu Leu Leu Lys His Met Phe Val Leu Arg Glu Arg Pro Glu Thr
113          275          280          285
114 Val Leu Ile Asp Leu Ile Gln Arg Thr Lys Asp Ala Val Arg Glu Leu
115          290          295          300
116 Asp Asn Leu Gln Tyr Arg Lys Met Lys Lys Leu Leu Phe Gln Glu Ala
117 305          310          315          320
118 His Asn Gly Pro Ala Val Glu Ala Gln Glu Glu Glu Glu Gln Asp
119          325          330          335
120 His Gly Gly Gly Arg Thr Gly Thr Val Asn Ser Val Gly Ser Asn Gln
121          340          345          350
122 Ser Ile Pro Ser Met Ser Ile Ser Ala Ser Ser Gln Ser Ser Ser Val
123          355          360          365
124 Asn Ser Leu Pro Asp Ala Ser Asp Asp Lys Ser Glu Leu Asp Met Met
125          370          375          380
126 Glu Gly Asp His Thr Val Met Ser Asn Ser Ser Val Ile His Leu Lys
127 385          390          395          400
128 Pro Glu Glu Glu Asn Tyr Gln Glu Glu Gly Asp Pro Arg Thr Arg Ala
129          405          410          415
130 Ser Ala Pro Gln Ser Pro Pro Gln Val Ser Arg His Lys Ser His Tyr
131          420          425          430
132 Arg Asn Arg Glu His Phe Ala Thr Ile Arg Thr Ala Ser Leu Val Thr
133          435          440          445
134 Arg Gln Met Gln Glu His Glu Gln Asp Ser Glu Leu Arg Glu Gln Met
135          450          455          460
136 Ser Gly Tyr Lys Arg Met Arg Arg Gln His Gln Lys Gln Leu Met Thr
137 465          470          475          480
138 Leu Glu Asn Lys Leu Lys Ala Glu Met Asp Glu His Arg Leu Arg Leu
139          485          490          495
140 Asp Lys Asp Leu Glu Thr Gln Arg Asn Asn Phe Ala Ala Glu Met Glu
141          500          505          510
142 Lys Leu Ile Lys Lys His Gln Ala Ser Met Glu Lys Glu Ala Lys Val
143          515          520          525

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144 Met Ala Asn Glu Glu Lys Lys Phe Gln Gln His Ile Gln Ala Gln Gln
145      530                      535                      540
146 Lys Lys Glu Leu Asn Ser Phe Leu Glu Ser Gln Lys Arg Glu Tyr Lys
147      545                      550                      555                      560
148 Leu Arg Lys Glu Gln Leu Lys Glu Glu Leu Asn Glu Asn Gln Ser Thr
149                      565                      570                      575
150 Pro Lys Lys Glu Lys Gln Glu Trp Leu Ser Lys Gln Lys Glu Asn Ile
151                      580                      585                      590
152 Gln His Phe Gln Ala Glu Glu Glu Ala Asn Leu Leu Arg Arg Gln Arg
153                      595                      600                      605
154 Gln Tyr Leu Glu Leu Glu Cys Arg Arg Phe Lys Arg Arg Met Leu Leu
155      610                      615                      620
156 Gly Arg His Asn Leu Glu Gln Asp Leu Val Arg Glu Glu Leu Asn Lys
157      625                      630                      635                      640
158 Arg Gln Thr Gln Lys Asp Leu Glu His Ala Met Leu Leu Arg Gln His
159                      645                      650                      655
160 Glu Ser Met Gln Glu Leu Glu Phe Arg His Leu Asn Thr Ile Gln Lys
161                      660                      665                      670
162 Met Arg Cys Glu Leu Ile Arg Leu Gln His Gln Thr Glu Leu Thr Asn
163                      675                      680                      685
164 Gln Leu Glu Tyr Asn Lys Arg Arg Glu Arg Glu Leu Arg Arg Lys His
165      690                      695                      700
166 Val Met Glu Val Arg Gln Gln Pro Lys Ser Leu Lys Ser Lys Glu Leu
167      705                      710                      715                      720
168 Gln Ile Lys Lys Gln Phe Gln Asp Thr Cys Lys Ile Gln Thr Arg Gln
169                      725                      730                      735
170 Tyr Lys Ala Leu Arg Asn His Leu Leu Glu Thr Thr Pro Lys Ser Glu
171                      740                      745                      750
172 His Lys Ala Val Leu Lys Arg Leu Lys Glu Glu Gln Thr Arg Lys Leu
173                      755                      760                      765
174 Ala Ile Leu Ala Glu Gln Tyr Asp His Ser Ile Asn Glu Met Leu Ser
175      770                      775                      780
176 Thr Gln Ala Leu Arg Leu Asp Glu Ala Gln Glu Ala Glu Cys Gln Val
177      785                      790                      795                      800
178 Leu Lys Met Gln Leu Gln Gln Glu Leu Glu Leu Leu Asn Ala Tyr Gln
179                      805                      810                      815
180 Ser Lys Ile Lys Met Gln Ala Glu Ala Gln His Asp Arg Glu Leu Arg
181                      820                      825                      830
182 Glu Leu Glu Gln Arg Val Ser Leu Arg Arg Ala Leu Leu Glu Gln Lys
183                      835                      840                      845
184 Ile Glu Glu Glu Met Leu Ala Leu Gln Asn Glu Arg Thr Glu Arg Ile
185      850                      855                      860
186 Arg Ser Leu Leu Glu Arg Gln Ala Arg Glu Ile Glu Ala Phe Asp Ser
187      865                      870                      875                      880
188 Glu Ser Met Arg Leu Gly Phe Ser Asn Met Val Leu Ser Asn Leu Ser
189                      885                      890                      895
190 Pro Glu Ala Phe Ser His Ser Tyr Pro Gly Ala Ser Ser Trp Ser His
191                      900                      905                      910
192 Asn Pro Thr Gly Gly Ser Gly Pro His Trp Gly His Pro Met Gly Gly

```

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193		915		920		925	
194	Thr	Pro	Gln	Ala	Trp	Gly	His
195		930		935		940	
196	Gly	His	Pro	Ser	Gly	Pro	Met
197		945		950		955	
198	Gly	Val	Arg	Asn	Ser	Pro	Gln
199				965		970	
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203				995		1000	

205 <210> SEQ ID NO: 3  
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 207 <212> TYPE: DNA  
 208 <213> ORGANISM: Rattus norvegicus  
 209 <400> SEQUENCE: 3

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212	agcggaggcg	ctggggcacc	atagtgaccc	ctaccaggca	agatcccaat	ttcagggccc	180
213	ccaggggcca	tcatgccagc	tgggggcccg	gccgggagcc	tgaaggaccc	tgatgtagct	240
214	gagctcttct	tcaaagatga	ccctgagaag	cttttctctg	acctccggga	aattggccat	300
215	ggcagttttg	gagctgtgta	ctttgcccgg	gatgtccgga	acagtgaggt	ggtggccatc	360
216	aagaagatgt	cctatagtgg	gaagcaatca	aatgagaaat	ggcaggatat	catcaaggag	420
217	gtgcggttct	tacagaagct	acggcatcct	aataccattc	agtaccgggg	ctgttacctg	480
218	agggagcaca	cagcttggct	ggtgatggag	tattgcctgg	gttcagcttc	tgatcttctc	540
219	gaagtgcaca	agaagccgct	gcaggaggta	gagattgcag	ctgtgaccca	tggtgcgctt	600
220	cagggcctgg	cctatctaca	ttcacacaac	atgatccata	gagatgtgaa	ggctgggaac	660
221	atcttgctgt	cagaaccagg	cttggtgaaa	ctgggggact	ttggctccgc	atccatcatg	720
222	gcacctgcca	actcatttgt	gggcactcca	tactggatgg	ctccagaggt	gacccatagc	780
223	atggatgagg	gacaatatga	tggcaaagtg	gatgtctggt	ccttggggat	aacctgtatt	840
224	gagctagcgg	agcgggaagc	accactgttt	aacatgaatg	caatgagtgc	cttataccac	900
225	attgcacaga	atgaatcccc	tgctctccag	tcaggacact	ggtctgagta	cttccggaat	960
226	tttggtgact	ctgtcttcca	gaaaatccct	caagacagac	caacctcaga	ggttcttttg	1020
227	aagcaccgct	ttgtgctccg	ggagcggcca	cccacagtea	tcattggacct	aattcagagg	1080
228	accaaggatg	ctgtacggga	actagataac	ctgcagtacc	gaaagatgaa	gaagatacta	1140
229	ttccaagagg	cacccaatgg	ccctggtgct	gaggccccag	aggaagagga	ggaagcagaa	1200
230	ccttacatgc	accgagcagg	gacactgacc	agtctagaga	gtagccattc	agtgcccagc	1260
231	atgtccatca	gcgcctccag	ccaaagcagc	tcagtcaaca	gcctagcaga	tgccctcagat	1320
232	aatgaagaag	aggaggagga	ggaagaggaa	gaagaagagg	aggaggaaga	agaaggccct	1380
233	gaatcccag	agatggccat	gatgcaggag	ggggagcata	cagtcacttc	ccacagctcc	1440
234	atcatccacc	ggctgccggg	ctcagacaac	ctatatgatg	atccctacca	gccagagatg	1500
235	accccaggtc	cactccaacc	acctgcagcc	cctcccacct	ccacctcctc	ctcttctgct	1560
236	cgccgcagag	cttattgccg	caaccgagac	cacttttgcca	ccatccgtac	tgccctccctg	1620
237	gtcagccgtc	agatccagga	gcattgagcag	gactcggccc	tgccgggagca	actaagtggc	1680
238	tacaagcggg	tgccggcgtca	gcaccagaag	caactgctgg	ccctggagtc	ccgtctgagg	1740
239	ggtgaacgtg	aggagcacag	tgggcgggtt	cagcgtgaac	tcgaggcaca	gcgggctggc	1800
240	tttgggactg	aggctgagaa	gctggccccg	aggcaccagg	ccattggtga	gaaggaagca	1860
241	cgagctgctc	aggctgagga	gcgggaagtt	cagcagcaca	tcttggggca	gcagaagaag	1920
242	gaactggctg	ccctgctgga	ggcacagaag	cgaacctata	agcttcggaa	ggagcagttg	1980

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/686,346A

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Input Set : N:\EBONY'S\US09686346A.raw.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 5,92,138  
Seq#:7; N Pos. 208,210,223  
Seq#:10; N Pos. 192  
Seq#:11; N Pos. 18  
Seq#:19; N Pos. 24,31  
Seq#:20; N Pos. 3,6,13,16,19  
Seq#:21; N Pos. 11,14,18  
Seq#:22; N Pos. 19,22

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

## VARIABLE LOCATION SUMMARY

DATE: 09/10/2003

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Input Set : N:\EBONY'S\US09686346A.raw.txt

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Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

in &lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:5; N Pos. 5,92,138

Seq#:7; N Pos. 208,210,223

Seq#:10; N Pos. 192

Seq#:11; N Pos. 18

Seq#:19; N Pos. 24,31

Seq#:20; N Pos. 3,6,13,16,19

Seq#:21; N Pos. 11,14,18

Seq#:22; N Pos. 19,22

## VERIFICATION SUMMARY

DATE: 09/10/2003

PATENT APPLICATION: US/09/686,346A

TIME: 09:44:49

Input Set : N:\EBONY'S\US09686346A.raw.txt

Output Set: N:\CRF4\09102003\I686346A.raw

L:4 M:270 C: Current Application Number differs, Wrong Format  
L:422 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:5  
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
M:341 Repeated in SeqNo=5  
L:453 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:7  
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:180  
L:487 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:10  
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:180  
L:497 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:11  
L:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:629 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:631 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19  
L:632 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:19  
L:632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:640 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:642 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20  
L:643 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:20  
L:643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:651 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:653 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21  
L:654 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:21  
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:662 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:664 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22  
L:665 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:22  
L:665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0



**STATISTICS SUMMARY**

PATENT APPLICATION: US/09/686,346A

DATE: 09/10/2003

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Input Set : N:\EBONY'S\US09686346A.raw.txt

Output Set: N:\CRF4\09102003\I686346A.raw

Application Serial Number: US/09/686,346A

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 10-10-2000

Art Unit: 1600

Software Application: PatentIN3.0

Total Number of Sequences: 26

Total Nucleotides: 9901

Total Amino Acids: 2612

Number of Errors: 0

Number of Warnings: 26

Number of Corrections: 1

**MESSAGE SUMMARY**

258 W: 12 (Mandatory Feature missing)

270 C: 1 (Current Application Number differs)

281 W: 4 (Numeric Fields not Ordered)

341 W: 10 ((46) "n" or "Xaa" used)